

131
(New Syllabus)



Total No. of Questions - 21

Total No. of Printed Pages - 2

Regd.
No.

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Part - III
ZOOLOGY, Paper - I
(English Version)

Time : 3 hours

Max. Marks : 60

Instructions to Candidate :

- 1) Answer **all** the questions of Section 'A'. Answer **any six** questions in Section 'B' and answer **any two** questions in Section 'C'.
- 2) In Section 'A', questions from Sr. Nos. 1 to 10 are of **Very Short Answer Type**. Each question carries **two** marks. Every answer may be limited to **5** lines. Answer all these questions at one place in the same order.
- 3) In Section 'B', questions from Sr. Nos. 11 to 18 are of **Short Answer Type**. Each question carries **four** marks. Every answer may be limited to **20** lines.
- 4) In Section 'C', questions from Sr. Nos. 19 to 21 are of **Long Answer Type**. Each question carries **eight** marks. Every answer may be limited to **60** lines.
- 5) Draw labelled diagrams wherever necessary in Sections 'B' and 'C'.

SECTION A

Answer all questions in 5 lines each.

10 × 2 = 20

1. What is trinomial nomenclature? Give an example.
2. What is cephalization? How is it useful to its possessors?
3. Distinguish between exocrine and endocrine glands with examples.
4. Which is the strongest cartilage? In which regions of the human body do you find it?
5. What is Aristotle's lantern? Give an example of an animal possessing it.
6. How do you justify the statement, 'heart in fish is a branchial heart'?

7. Distinguish between lobopodium and filopodium. Give an example of each of them.
8. Distinguish between proter and opisthe.
9. In what way does tobacco affect respiration? Name the alkaloid found in tobacco.
10. Define commensalism. Give an example.

SECTION B

Answer any six questions in 20 lines each.

6 × 4 = 24

11. Write a short note on in-situ conservation.
12. Describe the structure of a skeletal muscle.
13. What are the chief characters of the crustaceans?
14. Describe the male reproductive system of frog.
15. What are lateral appendages? Based on their presence and absence, write the various types of flagella giving at least one example for each type.
16. Why is adolescence considered a vulnerable phase?
17. Draw a neat and labelled diagram of ommatidium.
18. What is summer stratification? Explain.

SECTION C

Answer any two questions in 60 lines each.

2 × 8 = 16

19. Describe the structure and life cycle of *Ascaris lumbricoides* with the help of a neat and labelled diagram.
20. Describe the digestive system of cockroach with the help of a neat labelled diagram.
21. List the major 'air pollutants' and describe their effects on human beings.